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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/518,589	12/21/2004	James Howard Johnston	P70315US0	6844	
	7590 02/23/2007 OLMAN PLLC	EXAM	EXAMINER		
400 SEVENTH STREET N.W.			HRUSKOCI	HRUSKOCI, PETER A	
SUITE 600 WASHINGTON	N. DC 20004		ART UNIT	PAPER NUMBER	
			1724		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	. DELIVER	· DELIVERY MODE	
3 MONTHS		02/23/2007	PAP	PAPFR	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/518,589	JOHNSTON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Peter A. Hruskoci	1724				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nety filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 12/21	1/04. 3/16/05. and 6/14/06.					
	,—					
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>40-70</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>40-70</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) ☐ Some * c) ☐ None of:						
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
3. Copies of the certified copies of the priority documents have been received in Application No						
application from the International Bureau	•	· · · · · · · · · · · · · · · · · · ·				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 40, 41, 43, 44, and 51-70 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lehmann 5,651,897 in view the publication by Kolaczkowski et al. Lehmann discloses (see col. 2 line 32 through col. 4 line 67) a process for wet oxidation of a feedstock substantially as claimed. It is submitted that the solids included in the liquor or wastewater of Lehmann would include at least one non-volatile oxidizable material. The claims differ from Lehmann by reciting the contacting step includes the presence of a catalyst. Kolaczkowski et al. disclose (see pages 143-145 and 154) that it is known in the art to utilize homogeneous copper salts as a catalyst in a wet air oxidation process, to enhance the reaction rate. It would have been obvious to one skilled in the art to modify the process of Lehmann by utilizing the recited catalyst in view of the teaching of Kolaczkowski et al., to enhance the reaction rate in the reactor. The specific weight percent oxidizable material present, and the use of flash evaporation to remove the vapor phase, would have been an obvious matter of process optimization to one skilled in the art, depending on the specific reactor utilized and results desired, absent a sufficient showing of unexpected results. With regard to claims 52-62, it is submitted that the teachings of Kolaczkowski et al. appear to disclose the use of the recited temperatures and pressures.

Claims 42 and 45-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lehmann 5,651,897 in view the publication by Kolaczkowski et al. as above, and further in view of Sorensen et al. 5,370,801. The claims differ from the references as applied above, by reciting

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that the feedstock comprises a slurry formed from dry material and an aqueous liquid, and the oxidizable material is a specific waste or organic substance. Sorensen et al. disclose (see col. 3 line 28 through col. 5 line 64, and col. 11 line 36 through col. 12 line 22) that it is known in the art to utilize a wet air oxidation process including a catalyst, to oxidize a soil containing polluting oxidizable material, which is suspended in water before being subjected to wet oxidation. It is submitted that the polluting oxidizable material subject to wet oxidation in Sorensen et al. would appear to include the recited waste and organic substances. It would have been obvious to one skilled in the art to modify the references as applied above, utilizing the recited slurry, waste, and organic substances in view of the teaching of Sorensen et al., to aid in decomposing the waste and oxidizable material in the feedstock.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter A. Hruskoci whose telephone number is (571) 272-1160. The examiner can normally be reached on Monday through Friday from 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner
Art Unit 1724

2/17/07